Claims

- 1. A smokable filler material comprising a foaming agent, an agent capable of forming chemical cross-linkages, and a cross-linking agent, wherein, when combined, the foaming agent in the foamed state thereof, the agent capable of forming chemical cross-linkages and the cross-linking agent provided a stabilised, foamed material.
- 2. A smoking material according to Claim 1, wherein the foaming agent and the agent capable of forming chemical cross-linkages are provided by the same material, thereby providing a foaming agent capable of forming chemical cross-linkages.
- 3. A smoking material according to Claim 1 or 2, wherein the foaming agent capable of forming chemical cross-linkages is a foaming alginate.
- 4. A smoking material according to Claim 3, wherein the foaming alginate is an esterified alginate.
- 5. A smoking material according to Claim 3 or 4, wherein the foaming alginate is propylene glycol alginate.
- 6. A smoking material according to any one of Claims 1-5, wherein the foaming agent capable of forming chemical cross-linkages is present at between about 30% and about 95% by weight of the dry smokable filler material.
- 7. A smoking material according to any preceding claim, wherein the cross-linking agent is an agent which provides free calcium ions in aqueous solution.
- 8. A smoking material according to Claim 7, wherein the cross-linking agent may be a calcium salt which salt is soluble or sparingly soluble at neutral pH (pH 7.0).
- 9. A smoking material according to Claim 7 or 8, wherein the cross-linking agent is one or more of calcium sulphate or calcium citrate.
- 10. A smoking material according to Claim 7, wherein the cross-linking agent is a calcium salt which is insoluble at neutral pH, which salt becomes soluble or sparingly soluble at acidic pH.
- 11. A smoking material according to Claim 10, wherein the cross-linking agent is calcium carbonate or calcium phosphate.

- 12. A smoking material according to Claim 7, wherein, the cross-linking agent is a calcium salt which is soluble or sparingly soluble, which salt forms an alkaline solution.
- 13. A smoking material according to Claim 12, wherein the cross-linking agent is calcium hydroxide.
- 14. A smoking material according to any one of Claims 7-13, wherein the foaming agent capable of forming chemical cross-linkages is present in the range of about 61% to about 90% by weight of the dry smokable filler material.
- 15. A smoking material according to any one of Claims 8-14, wherein the cross-linking agent is present in the range of between about 1.0% and about 11% by weight of the dry smokable filler material.
- 16. A smoking material according to Claim 7, wherein the cross-linking agent is a tobacco material.
- 17. A smoking material according to any one of Claims 8-13, wherein the cross-linking agent is further provided by tobacco.
- 18. A smoking material according to Claim 16 or 17, wherein the foaming agent capable of forming chemical cross-linkages is present in the range of about 30% to about 80% by weight of the dry smokable filler material.
- 19. A smoking material according to any one of Claims 16-18, wherein the tobacco material is present in the range of about 10% to about 60% by weight of the dry smokable filler material.
- 20. A smoking material according to Claim 19, wherein the tobacco is present at about 20% by weight of the dry smokable filler material.
- 21. A smoking material according to Claim 17, wherein the calcium salt is present in the range of about 1.0% to about 6% by weight of the dry smokable filler material.
- 22. A smoking material according to any one of the preceding claims, further comprising a non-alginic foaming agent.
- 23. A smoking material according to Claim 22, wherein the non-alginic foaming agent is a foaming agent incapable of forming chemical cross-linkages.

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24. A smoking material according to Claim 22 or 23, wherein the non-alginic foaming

agent is a foaming surfactant.

- 25. A smoking material according to Claim 24, wherein the foaming surfactant is one or more of the group including celluloses capable of foaming, for example hydroxylpropyl cellulose, methyl cellulose or ethyl cellulose, starch, proteins, for example egg albumin, sugar esters.
- 26. A smoking material according to any one of the preceding claims, further comprising a non-foaming agent capable of forming chemical cross-linkages.
- 27. A smoking material according to Claim 26, wherein the non-foaming agent capable of forming chemical cross-linkages is a soluble alginate.
- 28. A smoking material according to Claim 27, wherein the non-foaming agent capable of forming chemical cross-linkages is one or more of sodium alginate, ammonium alginate and potassium alginate.
- 29. A smoking material according to any one of Claims 1 to 21, further comprising a non-alginic foaming agent and a non-foaming agent capable of forming chemical cross-linkages.
- 30. A smoking material according to Claim 29, wherein the non-alginic foaming agent is a foaming agent incapable of forming chemical cross-linkages.
- 31. A smoking material according to Claim 1, wherein the foaming agent and the agent capable of forming chemical cross-linkages are provided by different materials.
- 32. A smoking material according to Claim 31, wherein the smokable filler material comprises a non-alginic foaming agent.
- 33. A smoking material according to Claim 32, wherein the non-alginic foaming agent is incapable of forming chemical cross-linkages.
- 34. A smoking material according to Claim 32 or 33, wherein the non-alginic foaming agent may be a foaming surfactant.
- 35. A smoking material according to Claim 34, wherein the foaming surfactant is one or more of the group including celluloses capable of foaming, for example

- hydroxylpropyl cellulose, methyl cellulose or ethyl cellulose, starch, proteins, for example egg albumin and sugar esters.
- 36. A smoking material according to any one of claims 32-35, wherein the non-alginic foaming agent is present in the range of about 0.5% to about 70% by weight of the dry smokable filler material.
- 37. A smoking material according to Claim 31, wherein the cross-linking agent is an agent which provides free calcium ions in aqueous solution.
- 38. A smoking material according to Claim 37, wherein the cross-linking agent is a calcium salt which salt is soluble or sparingly soluble at neutral pH (pH 7.0).
- 39. A smoking material according to Claim 37 or 38, wherein the cross-linking agent is one or more of calcium sulphate or calcium citrate.
- 40. A smoking material according to Claim 37, wherein the cross-linking agent is a calcium salt which is insoluble at neutral pH, which salt becomes soluble or sparingly soluble at acidic pH.
- 41. A smoking material according to Claim 40, wherein the cross-linking agent is calcium carbonate or calcium phosphate.
- 42. A smoking material according to Claim 37, wherein, the cross-linking agent is a calcium salt which is soluble or sparingly soluble, which salt forms an alkaline solution.
- 43. A smoking material according to Claim 42, wherein the cross-linking agent is calcium hydroxide.
- 44. A smoking material according to any one of Claims 38-43, wherein the cross-linking agent is present in a range of between about 0.5% and about 50% by weight of the dry smokable filler material.
- 45. A smoking material according to Claim 37, wherein the cross-linking agent is calcium carbonate, the cross-linking agent being present at between about 40% to about 60% by weight of the dry smokable filler material.
- 46. A smoking material according to any one of claims 38-43, wherein the cross-linking agent is further provided by tobacco.

- 47. A smoking material according to Claim 37, wherein the cross-linking agent is a tobacco material.
- 48. A smoking material according to Claim 46, wherein the calcium salt is present in a range of about 0.5% to about 8.0% by weight of the dry smokable filler material.
- 49. A smoking material according to Claim 46 or 47, wherein the tobacco is present in the range of about 10% to about 60% by weight of the dry smokable filler material.
- 50. A smoking material according to any one of claims 38-45, wherein the non-alginic foaming agent is present in the range of about 0.5% to about 70% by weight of the dry smokable filler material.
- 51. A smoking material according to Claim 46, wherein the non-alginic foaming agent is present in the range of about 2% to about 25% by weight of the dry smokable filler material.
- 52. A smoking material according to Claim 47, wherein the non-alginic foaming agent is present in the range of about 4% to about 35% by weight of the dry smokable filler material.
- 53. A smoking material according to any one of claims 31-52, wherein the non-foaming agent capable of forming chemical cross-linkages is a soluble alginate.
- 54. A smoking material according to Claim 53, wherein the soluble alginate is one or more of sodium alginate, ammonium alginate or potassium alginate.
- 55. A smoking material according to Claim 53 or 54, wherein the non-foaming agent capable of forming chemical cross-linkages is present in a range of about 3% to about 70% by weight of the dry smokable filler material.
- 56. A smoking material according to Claim 55, wherein when the cross-linking agent is in accordance with any one of claims 38-45, the non-foaming agent capable of forming chemical cross-linkages is present in the range of about 3% to about 70% by weight of the dry smokable filler material.
- 57. A smoking material according to Claim 55, wherein when the cross-linking agent is in accordance with claim 46, the non-foaming agent capable of forming chemical cross-

- linkages is present in the range of about 3% to about 55% by weight of the dry smokable filler material.
- 58. A smoking material according to Claim 55, wherein, when the cross-linking agent is tobacco the non-foaming agent capable of forming chemical cross-linkages is preferably present in the range of about 6% to about 60% by weight of the dry smokable filler material.
- 59. A smoking material according to any one of the preceding claims, wherein the smokable filler material is a self-supporting foam when dried.
- 60. A smoking material according to Claim 59, wherein, when dried, smokable filler material has a moisture content in the range of 0% to about 30%.
- 61. A smoking material according to any one of the preceding claims, further comprising aerosol generating means.
- 62. A smoking material according to Claim 61, wherein the aerosol generating means comprises aerosol forming means.
- 63. A smoking material according to Claim 62, wherein the aerosol forming means one or more of polyhydric alcohols, glycerol, propylene glycol and triethylene glycol, esters or high boiling point hydrocarbons.
- 64. A smoking material according to any one of Claims 61-63, wherein the aerosol generating means is present at between 0% and 65% by weight of the dry smokable filler material.
- 65. A smoking material according to any one or the preceding claims, further comprising an inorganic filler material.
- 66. A smoking material according to Claim 65, wherein the inorganic filler material is a particulate material.
- 67. A smoking material according to Claim 65 or 66, wherein the inorganic filler material is one or more of perlite, zeolite, alumina, vermiculite, diatomaceous earth, colloidal silica, chalk, magnesium oxide, magnesium sulphate or magnesium carbonate.
- 68. A smoking material according to any one of the preceding claims, further comprising a colourant and/or a flavourant material.

- 69. A smoking material according to Claim 68, wherein the flavourant and/or colourant is one or more of cocoa, liquorice, caramel, chocolate, toffee, tobacco extract flavours, menthol and vanillin.
- 70. A smoking material according to Claim 68 or 69, wherein the flavourant and/or colourant is present in a range of about 0.2% to about 5% by weight of the dry smokable filler material.
- 71. A smoking material according to any one of the preceding claims, further comprising a fibrous material.
- 72. A smoking material according to Claim 71, wherein the fibrous material is one or more of tobacco, wood pulp, cellulosic or alginic material.
- 73. A smoking material according to any one of the preceding claims, further comprising a carbonaceous material.
- 74. A smoking material according to any one of the preceding claims, further comprising a binder material.
- 75. A smoking article comprising a rod of smoking material enwrapped in a wrapper, the smoking material comprising a blend, which blend incorporates the smokable filler material according to any one of claims 1-74.
- 76. A smoking article comprising a rod of smoking material enwrapped in a wrapper, the smoking material consisting essentially of the smokable filler material according to any one of claims 1-74.
- 77. A method of producing a foamed smokable filler material comprising the steps of:
 - a) producing a foam from a foaming agent, which foaming agent is capable of forming chemical cross-linkages;
 - b) mixing said foam with a cross-linking agent;
 - c) forming a slurry from said mix;
 - d) casting said slurry; and
 - e) drying said slurry to form a foamed sheet material.
- 78. A method of producing a foamed smokable material comprising the steps of:

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- a) mixing a foaming agent capable of forming cross-linkages and a cross-linking agent; and
- b) extruding said mixture such that upon exiting an extruder die a stabilised foamed material is provided.
- 79. A smoking material substantially as hereinabove described.